

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 Claim 1 (previously presented): A communications method, the
2 method comprising:
3 operating an access node to receive a data message directed
4 to an end node; and
5 operating the access node to determine a paging requirement
6 using packet classification based on a header field included in
7 said data message.

1 Claim 2 (previously presented): The method of claim 1,
2 wherein said paging requirement is determined as a function
3 of at least one of a quality of service indicator, a type
4 indicator, a source indicator, and a destination indicator; and
5 wherein said access node is a base station, the method
6 further comprising:
7 operating said access node to allocate a paging
8 transmission resource for transmitting a page as a function of
9 the determined paging requirement, at least some of said
10 plurality of paging requests having different determined paging
11 requirements resulting in different allocation of access node
12 resources.

1 Claim 3 (previously presented): The method of claim 2, further
2 comprising:
3 operating said access node to transmit a page over a
4 wireless communications link using the allocated paging
5 transmission resource.

1 Claim 4 (previously presented): The method of claim 3, wherein
2 said step of transmitting a page includes incorporating, into
3 said page, information indicating a state of device operation in

4 which a device to which said page is directed, is to operate
5 after receiving said page.

1 Claim 5 (previously presented): The method of claim 2, further
2 comprising:
3 operating said access node to communicate a paging signal
4 to a second node, indicating allocation of a paging transmission
5 resource for use in transmitting a page corresponding to said
6 received data message.

1 Claim 6 (previously presented): The method of claim 1, further
2 comprising:
3 operating said access node to communicate said determined
4 paging requirement to a second node in a paging request message.

1 Claim 7 (previously presented): The method of claim 6, wherein
2 said paging request message includes at least a portion of said
3 received data message.

1 Claim 8 (original): The method of claim 7, wherein said
2 determined paging requirement, indicated in said paging request
3 message, is that said portion be included in a page.

1 Claim 9 (original): The method of claim 6, wherein said
2 determined paging requirement, indicated in said paging request
3 message, is that a page be acknowledged.

1 Claim 10 (original): The method of claim 6, wherein said
2 determined paging requirement, indicated in said paging request
3 message, is a quality of service.

1 Claim 11 (original): The method of claim 10, wherein said
2 quality of service includes a page transmission timing
3 constraint.

1 Claim 12 (original): The method of claim 10, wherein said
2 quality of service is one of a plurality of levels.

1 Claim 13 (original): The method of claim 10, wherein said
2 quality of service requires that a page be transmitted multiple
3 times.

1 Claim 14 (original): The method of claim 10, wherein said
2 quality of service requires retransmission of a page at least
3 once in the absence of an acknowledgment.

1 Claim 15 (previously presented): The method of claim 14,
2 further comprising:
3 operating the second node to cause said retransmission of
4 said page to be into a geographic area larger than an initial
5 transmission area of said page.

1 Claim 16 (previously presented): The method of claim 6,
2 wherein said determined paging requirement, indicated in
3 said paging request message, is a quality of service level; and
4 wherein said paging request message includes paging
5 resource allocation information indicating a fraction of a
6 paging resource to be allocated by said second node to pages
7 having said quality of service level, the method further
8 comprising:
9 operating the second node to allocate said fraction of said
10 paging resource to pages having a quality of service level
11 indicated in said paging request message.

1 Claim 17 (original): The method of claim 6, further comprising:
2 operating said second node to allocate a paging
3 transmission resource for transmitting a page, as a function of
4 said determined paging requirement, indicated in said paging
5 request message.

1 Claim 18 (original): The method of claim 17, further
2 comprising:
3 operating said second node to transmit a page using the
4 allocated paging transmission resource.

1 Claim 19 (previously presented): The method of claim 17,
2 further comprising:
3 operating said second node to communicate a paging signal
4 to a third node, indicating allocation of a paging transmission
5 resource for use in transmitting a page corresponding to said
6 data message.

Claims 20-26 (canceled)

1 Claim 27 (previously presented): A communications system
2 comprising:
3 a base station including:
4 i) means for receiving a data message directed to an end node;
5 and
6 ii) means for determining a paging requirement using packet
7 classification based on a header field included in said data
8 message, said paging requirement being determined as a function
9 of at least one of a quality of service indicator, a type
10 indicator, a source indicator, and a destination indicator.

1 Claim 28 (previously presented): The system of claim 27,
2 wherein said base station, further comprises:
3 means for allocating a paging transmission resource for
4 transmitting a page as a function of a determined paging
5 requirement.

1 Claim 29 (previously presented): The system of claim 28,
2 wherein said base station further includes a radio transmitter

3 for transmitting a page using the allocated paging transmission
4 resource.

1 Claim 30 (previously presented): The system of claim 29,
2 wherein said base station further includes:
3 means for generating a paging request message including
4 information indicating said determined paging requirement; and
5 means for transmitting said paging request message to
6 another node.

1 Claim 31 (previously presented): The system of claim 30,
2 wherein said paging request message includes at least a portion
3 of said received data message and wherein said determined paging
4 requirement, indicated in said paging request message, is that
5 said portion be included in a page.

1 Claim 32 (original): The system of claim 30, wherein said
2 determined paging requirement, indicated in said paging request
3 message, is that a page be acknowledged.

1 Claim 33 (original): The system of claim 30, wherein said
2 determined paging requirement, indicated in said paging request
3 message, is a quality of service requirement.

1 Claim 34 (original): The system of claim 30, further
2 comprising:
3 a second node, said second node including:
4 i) means for receiving said paging request message;
5 ii) means for allocating at least one paging resource as a
6 function of paging requirement information included in a
7 received paging request message; and
8 iii) means for transmitting a page to a mobile node using
9 the at least one allocated paging resource.

1 Claim 35-43 (canceled):